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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/064,720	08/09/2002	Yoshiyuki Nakano	086142-0533	4229	
22428	7590	06/04/2004	EXAMINER		
FOLEY AND LARDNER				SPISICH, GEORGE D	
SUITE 500				ART UNIT	
3000 K STREET NW				PAPER NUMBER	
WASHINGTON, DC 20007				3616	

DATE MAILED: 06/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/064,720	NAKANO ET AL.
	Examiner George D. Spisich	Art Unit 3616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 13 February 2004.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-15 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-4 and 7-15 is/are rejected.  
 7) Claim(s) 5 and 6 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 09 August 2002 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Drawings***

The drawings originally filed on August 9, 2002 are accepted.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 7, 8, 10, 11 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 42 27 780 A1 (provided in Applicant's IDS).

DE '780 discloses a pretensioner for increasing the restraint force of a seat belt on an occupant comprising a connecting member (24) which is a cable/wire connected to a piston (22), the piston configured to be moved by pressure of a gas generated by a gas generator, a "bent" tubular member having an approximately constant inner diameter and comprising a linear sliding portion in which the piston is slidably fitted and a gas generator accommodating portion in which the gas generator is accommodated.

The gas generator is located offset from the axis of movement of the piston. The connecting member is inherently operatively connected to the seat belt and buckle so that when the piston moves the connecting member pulls the seat belt/buckle.

The tubular member of DE '780 includes what could be described as either an acute bend or a substantially perpendicular bend between the gas generator accommodating portion and the linear portion.

The tubular member includes a hole bored coaxially with the piston and the connecting member being positioned to pass through the hole.

The tubular member of DE '780 includes a bend and has an approximately constant inner diameter. Although DE' 780 is shown to be assembled from 2 pieces, this is not claimed. Furthermore, the idea of making plural pieces integral is not patentable.

Claims 1, 3, 8-10 and 12-14 rejected under 35 U.S.C. 102(b) as being anticipated by Wier (USPN 5,908,222) (provided with Applicant's IDS, though not listed on form-1449).

Wier, as shown in Figure 2, discloses a pretensioner for increasing the restraint force of a seat belt on an occupant comprising a connecting member (14) which is a cable/wire connected to a piston (22), the piston configured to be moved by pressure of a gas generated by a gas generator or pyrotechnic propellant, a "bent" tubular member having an approximately constant inner diameter and comprising a linear sliding portion (at least initially) in which the piston is slidably fitted and a gas generator

accommodating portion in which the gas generator is accommodated. This bent member would be considered to be an obtuse bend. Although the linear sliding portion initially starts out straight, it should also be understood that curvilinear (as shown by Wier) would also properly be described by the term linear as this path is a type of linear. The gas generator is located offset from the axis of movement of the piston since the gas generator portion remains on an axis that is eventually offset from the axis of movement of the piston as the pistons travels. With respect to the pyrotechnic propellant (42) this is equivalent to a gas generator. The connecting member is operatively connected to the seat belt and buckle so that when the piston moves the connecting member pulls the seat belt/buckle.

Wier shows a piston having a plurality of balls (22) and an inclined surface (20) wherein the balls are then forced against the inside of the tubular member to limit movement of the piston in a single direction.

#### ***Allowable Subject Matter***

Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior Art does not show the bend of the tubular member including a gas generator accommodating portion that extends parallel either towards or away from a linear sliding portion.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Evans (USPN 6,113,145), Takehara et al. (USPN 6,345,504), Lenzen (USPN 5,145,209).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George D. Spisich whose telephone number is (703) 305-6495. The examiner can normally be reached on Monday to Friday 9:30-7:00 except alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on (703) 308-2089. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gds *[Signature]*  
May 21, 2004

*Spisich 6/1/04*  
PAUL N. DICKSON  
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